

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/541,657
Source: PCR
Date Processed by STIC: 3/29/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 03/29/2006

PATENT APPLICATION: US/10/541,657

TIME: 09:40:25

Input Set : A:\aren34.us5.pct sequence listing.ST25.txt

Output Set: N:\CRF4\03292006\J541657.raw

```

3 <110> APPLICANT: Jones, Robert M.
4     Semple, Graeme
5     Fioravanti, Beatriz
6     Pereira, Guilherme
7     Calderon, Imelda
8     Uy, Jane
9     Duvvuri, Kameshwari
10    Choi, Jin Sun Karoline
11    Xiong, Yifeng
12    Vibha, Dave
14 <120> TITLE OF INVENTION: 1,2,3-TRISUBSTITUTED ARYL AND HETEROARYL
DERIVATIVES AS
15    MODULATORS OF METABOLISM AND THE PRPPHYLAXIS AND TREATMENT OF
16    DISORDERS RELATED THERETO SUCH AS DIABETES AND HYPERGLYCEMIA
18 <130> FILE REFERENCE: 34.US5.PCT
C--> 20 <140> CURRENT APPLICATION NUMBER: US/10/541,657
C--> 20 <141> CURRENT FILING DATE: 2005-07-07
20 <150> PRIOR APPLICATION NUMBER: US 60/440394
21 <151> PRIOR FILING DATE: 2003-01-14
23 <150> PRIOR APPLICATION NUMBER: US 60/449,829
24 <151> PRIOR FILING DATE: 2003-02-24
26 <150> PRIOR APPLICATION NUMBER: US 60/453,390
27 <151> PRIOR FILING DATE: 2003-03-06
29 <150> PRIOR APPLICATION NUMBER: US 60/470,875
30 <151> PRIOR FILING DATE: 2003-05-14
32 <160> NUMBER OF SEQ ID NOS: 6
34 <170> SOFTWARE: PatentIn version 3.3
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 1191
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo Sapien
41 <400> SEQUENCE: 1
42 atgtacccat acgacgtccc agactacgct ggaagcttgg aatcatcttt ctcatattgga      60
44 gtgataccttg ctgtcctggc ctccctcatc attgctacta acacactagt ggctgtggct      120
46 gtgctgctgt tgatccacaa gaatgatggg gtcagtctct gcttcacctt gaatctggct      180
48 gtggctgaca ccttgattgg tgtggccatc tctggcctac tcacagacca gctctccagc      240
50 ccttctcggc ccacacagaa gaccctgtgc agcctgcgga tggcatttgt cacttcctcc      300
52 gcagctgcct ctgtcctcac ggtcatgctg atcacctttg acaggtaacct tgccatcaag      360
54 cagcccttcc gctacttgaa gatcatgagt ggggttcgtgg ccggggcctg cattgccggg      420
56 ctgtgggttag tgtcttacct cattggcttc ctcccactcg gaatcccat gttccagcag      480
58 actgcctaca aagggcagtg cagcttcttt gctgtatttc accctcactt cgtgctgacc      540
60 ctctcctgcg ttggcttctt cccagccatg ctccctcttt tcttcttcta ctgcgacatg      600
62 ctcaagattg cctccatgca cagccagcag attcgaaaga tggaaacatgc aggagccatg      660
64 gctggagggt atcgatcccc acggactccc agcgacttca aagctctccg tactgtgtct      720

```

RAW SEQUENCE LISTING

DATE: 03/29/2006

PATENT APPLICATION: US/10/541,657

TIME: 09:40:25

Input Set : A:\aren34.us5.pct sequence listing.ST25.txt

Output Set: N:\CRF4\03292006\J541657.raw

```

66 gttctcattg ggagctttgc tctatcctgg acccccttcc ttatcactgg cattgtgcag      780
68 gtggcctgcc aggagtgtca cctctaccta gtgctggaac ggtacctgtg gctgctcggc      840
70 gtgggcaact ccctgctcaa cccactcatc tatgcctatt ggcagaagga ggtgcgactg      900
72 cagctctacc acatggccct aggagtgaag aagggtgtca cctcattcct cctctttctc      960
74 tcggccagga attgtggccc agagaggccc agggaaagtt cctgtcacat cgctactatc     1020
76 tccagctcag agtttgatgg cgaattcgga tccaagggca attctgcaga tatccagcac     1080
78 agtggcggcc gctcgagtct agaggggccg cgggtcgaag gtaagcctat ccctaaccct     1140
80 ctctcgggtc tcgattctac gcgtaccggt catcatcacc atcaccattg a              1191
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 396
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo Sapien
88 <400> SEQUENCE: 2
90 Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Ser Leu Glu Ser Ser
91 1                    5                      10                      15
94 Phe Ser Phe Gly Val Ile Leu Ala Val Leu Ala Ser Leu Ile Ile Ala
95                20                      25                      30
98 Thr Asn Thr Leu Val Ala Val Ala Val Leu Leu Leu Ile His Lys Asn
99                35                      40                      45
102 Asp Gly Val Ser Leu Cys Phe Thr Leu Asn Leu Ala Val Ala Asp Thr
103                50                      55                      60
106 Leu Ile Gly Val Ala Ile Ser Gly Leu Leu Thr Asp Gln Leu Ser Ser
107 65                70                      75                      80
110 Pro Ser Arg Pro Thr Gln Lys Thr Leu Cys Ser Leu Arg Met Ala Phe
111                85                      90                      95
114 Val Thr Ser Ser Ala Ala Ala Ser Val Leu Thr Val Met Leu Ile Thr
115                100                     105                     110
118 Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Phe Arg Tyr Leu Lys Ile
119                115                     120                     125
122 Met Ser Gly Phe Val Ala Gly Ala Cys Ile Ala Gly Leu Trp Leu Val
123                130                     135                     140
126 Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Ile Pro Met Phe Gln Gln
127 145                150                     155                     160
130 Thr Ala Tyr Lys Gly Gln Cys Ser Phe Phe Ala Val Phe His Pro His
131                165                     170                     175
134 Phe Val Leu Thr Leu Ser Cys Val Gly Phe Phe Pro Ala Met Leu Leu
135                180                     185                     190
138 Phe Val Phe Phe Tyr Cys Asp Met Leu Lys Ile Ala Ser Met His Ser
139                195                     200                     205
142 Gln Gln Ile Arg Lys Met Glu His Ala Gly Ala Met Ala Gly Gly Tyr
143                210                     215                     220
146 Arg Ser Pro Arg Thr Pro Ser Asp Phe Lys Ala Leu Arg Thr Val Ser
147 225                230                     235                     240
150 Val Leu Ile Gly Ser Phe Ala Leu Ser Trp Thr Pro Phe Leu Ile Thr
151                245                     250                     255
154 Gly Ile Val Gln Val Ala Cys Gln Glu Cys His Leu Tyr Leu Val Leu
155                260                     265                     270
158 Glu Arg Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser Leu Leu Asn Pro
159                275                     280                     285

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/541,657

DATE: 03/29/2006

TIME: 09:40:25

Input Set : A:\aren34.us5.pct sequence listing.ST25.txt

Output Set: N:\CRF4\03292006\J541657.raw

```

162 Leu Ile Tyr Ala Tyr Trp Gln Lys Glu Val Arg Leu Gln Leu Tyr His
163      290                      295                      300
166 Met Ala Leu Gly Val Lys Lys Val Leu Thr Ser Phe Leu Leu Phe Leu
167 305                      310                      315                      320
170 Ser Ala Arg Asn Cys Gly Pro Glu Arg Pro Arg Glu Ser Ser Cys His
171                      325                      330                      335
174 Ile Val Thr Ile Ser Ser Ser Glu Phe Asp Gly Glu Phe Gly Ser Lys
175                      340                      345                      350
178 Gly Asn Ser Ala Asp Ile Gln His Ser Gly Gly Arg Ser Ser Leu Glu
179                      355                      360                      365
182 Gly Pro Arg Phe Glu Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu
183      370                      375                      380
186 Asp Ser Thr Arg Thr Gly His His His His His His His
187 385                      390                      395

190 <210> SEQ ID NO: 3
191 <211> LENGTH: 24
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Homo Sapien Primer
198 <400> SEQUENCE: 3
199 cattgccggg ctgtgggtag tgtc                                     24
202 <210> SEQ ID NO: 4
203 <211> LENGTH: 24
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Homo Sapien Primer
210 <400> SEQUENCE: 4
211 ggcatagatg agtggggtga gcag                                     24
214 <210> SEQ ID NO: 5
215 <211> LENGTH: 22
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Rat Primer
222 <400> SEQUENCE: 5
223 catgggccct gcaccttctt tg                                     22
226 <210> SEQ ID NO: 6
227 <211> LENGTH: 24
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Rat Primer
234 <400> SEQUENCE: 6
235 gctccgatg gctgatgata gtga                                     24

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/29/2006

PATENT APPLICATION: US/10/541,657

TIME: 09:40:26

Input Set : A:\aren34.us5.pct sequence listing.ST25.txt

Output Set: N:\CRF4\03292006\J541657.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6

VERIFICATION SUMMARY

DATE: 03/29/2006

PATENT APPLICATION: US/10/541,657

TIME: 09:40:26

Input Set : A:\aren34.us5.pct sequence listing.ST25.txt

Output Set: N:\CRF4\03292006\J541657.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date